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(54) Title: <i>CHLAMYDIA PNEUMONIAE</i> GENOMIC SEQUENCE AND POLYPEPTIDES, FRAGMENTS THEREOF AND USES THEREOF, IN PARTICULAR FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF INFECTION			
(57) Abstract			
<p>The subject of the invention is the genomic sequence and the nucleotide sequences encoding polypeptides of <i>Chlamydia pneumoniae</i>, such as cellular envelope polypeptides, which are secreted or specific, or which are involved in metabolism, in the replication process or in virulence, polypeptides encoded by such sequences, as well as vectors including the said sequences and cells or animals transformed with these vectors. The invention also relates to transcriptional gene products of the <i>Chlamydia pneumoniae</i> genome, such as, for example, antisense and ribozyme molecules, which can be used to control growth of the microorganism. The invention also relates to methods of detecting these nucleic acids or polypeptides and kits for diagnosing <i>Chlamydia pneumoniae</i> infection. The invention also relates to a method of selecting compounds capable of modulating bacterial infection and a method for the biosynthesis or biodegradation of molecules of interest using the said nucleotide sequences or the said polypeptides. The invention finally comprises, pharmaceutical, in particular vaccine, compositions for the prevention and/or treatment of bacterial, in particular <i>Chlamydia pneumoniae</i>, infections.</p>			

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INTERNATIONAL SEARCH REPORT

International Application No.
PCT, 18 98/01890

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 6	C12N15/31 A01K67/027	C12N15/62 A61K39/118
C07K14/295 G01N33/53	C07K16/12 C12Q1/68	C07K19/00
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PEREZ MELGOSA M ET AL: "Isolation and characterization of a gene encoding a Chlamydia pneumoniae 76-kilodalton protein containing a species-specific epitope." INFECT IMMUN, MAR 1994, 62 (3) P880-6, XP002076845 UNITED STATES abstract page 880, right-hand column, paragraph 3 -page 881, left-hand column, paragraph 1 --- -/-	1-3,7,9, 11,13, 26,27, 30,44, 45,48
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified) "O" document relating to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
3 June 1999		07.06.99
Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2000, Tx. 31 651 epo nl, Fax: (+31-70) 340-3010		Authorized officer Gurdjian, D

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INTERNATIONAL SEARCH REPORT

International Application No

PCT, .B 98/01890

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TOMB J -F ET AL: "THE COMPLETE GENOME SEQUENCE OF THE GASTRIC PATHOGEN <i>HELICOBACTER PYLORI</i> " NATURE, vol. 388, no. 6642, 7 August 1997 (1997-08-07), pages 539-547, TABEL, XP002062106 the whole document ---	1-3,7,9, 11,13, 26,27, 30,44, 45,48
A	KORNAK JM ET AL: "Sequence analysis of the gene encoding the <i>Chlamydia pneumoniae</i> DnaK protein homolog." INFECT IMMUN, FEB 1991, 59 (2) P721-5, XP002076846 UNITED STATES abstract page 724 ---	1
A	WATSON MW ET AL: "The Crp operon of <i>Chlamydia psittaci</i> and <i>Chlamydia pneumoniae</i> ." MICROBIOLOGY, OCT 1995, 141 (PT 10) P2489-97, XP002076847 ENGLAND abstract page 2942 -page 2943 ---	1
A	LOBAU S ET AL: "Molecular cloning, sequence analysis, and functional characterization of the lipopolysaccharide biosynthetic gene <i>kdtA</i> encoding 3-deoxy-alpha-D-manno-octulosonic acid transferase of <i>Chlamydia pneumoniae</i> strain TW-183." MOL MICROBIOL, NOV 1995, 18 (3) P391-9, XP002076848 ENGLAND abstract ---	1
A	PETERSON EM ET AL: "Characterization of the murine antibody response to peptides representing the variable domains of the major outer membrane protein of <i>Chlamydia pneumoniae</i> ." INFECT IMMUN, AUG 1996, 64 (8) P3354-9, XP002076849 UNITED STATES abstract ---	1
A	EP 0 784 059 A (HITACHI CHEMICAL CO LTD) 16 July 1997 (1997-07-16) claims 1-45 --- -/--	1

INTERNATIONAL SEARCH REPORT

International Application No
PCT, .8 98/01890

C/(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>"http://www.ncbi.nlm.nih.gov/cgi-bin/Entrez/frameset?db=Genome&gi=140" KALMAN S. ET AL., December 1998 (1998-12), XP002104860 page 1 -page 2 -----</p>	<p>1-3,7,9, 11,13</p>

INTERNATIONAL SEARCH REPORT

Int'l. application No.

PCT/IB 98/01890

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 40-43
are directed to a method of treatment of the human/animal
body, the search has been carried out and based on the alleged
effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

claims 1-3 and 7,9,11,13,26,27,30,44,45,48 (partially)

Remark on Protest:

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.